

FIG. 1

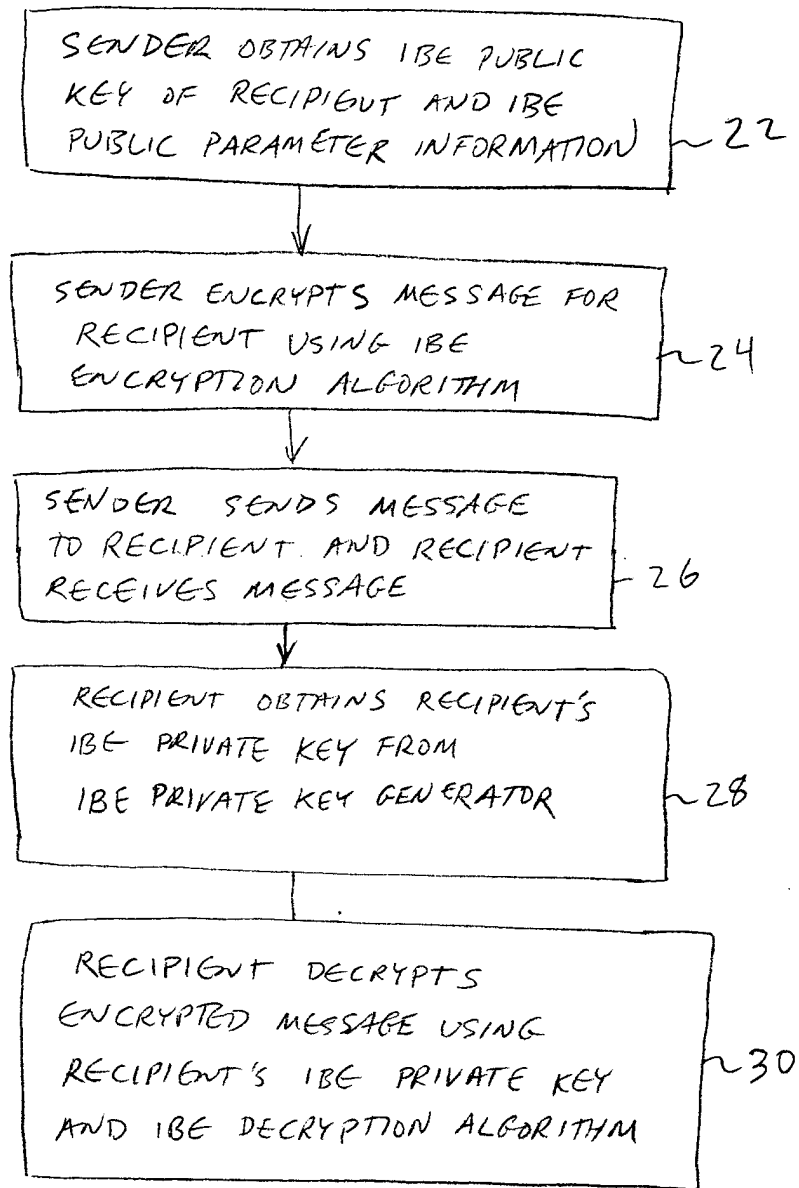


FIG. 2

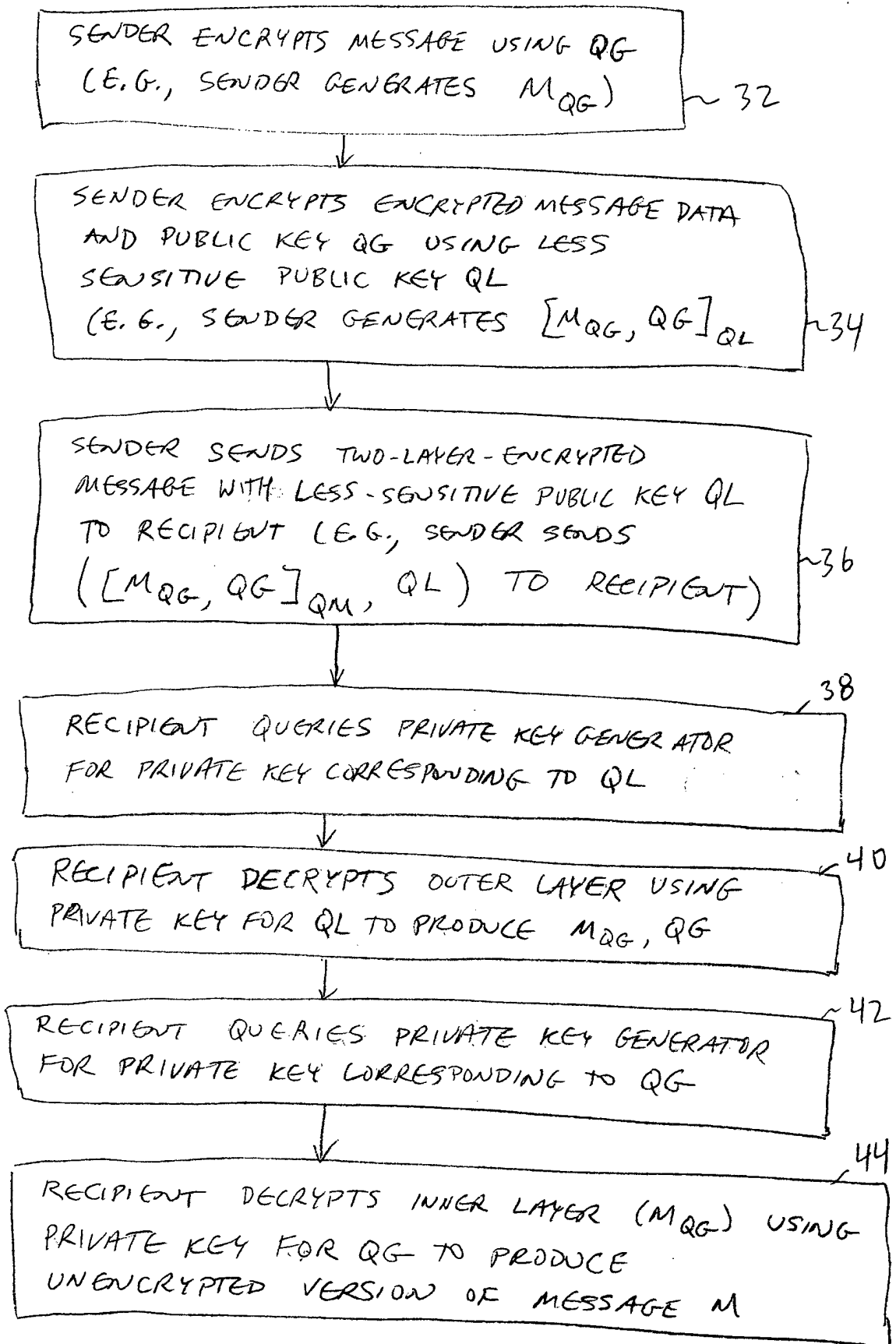


FIG. 3

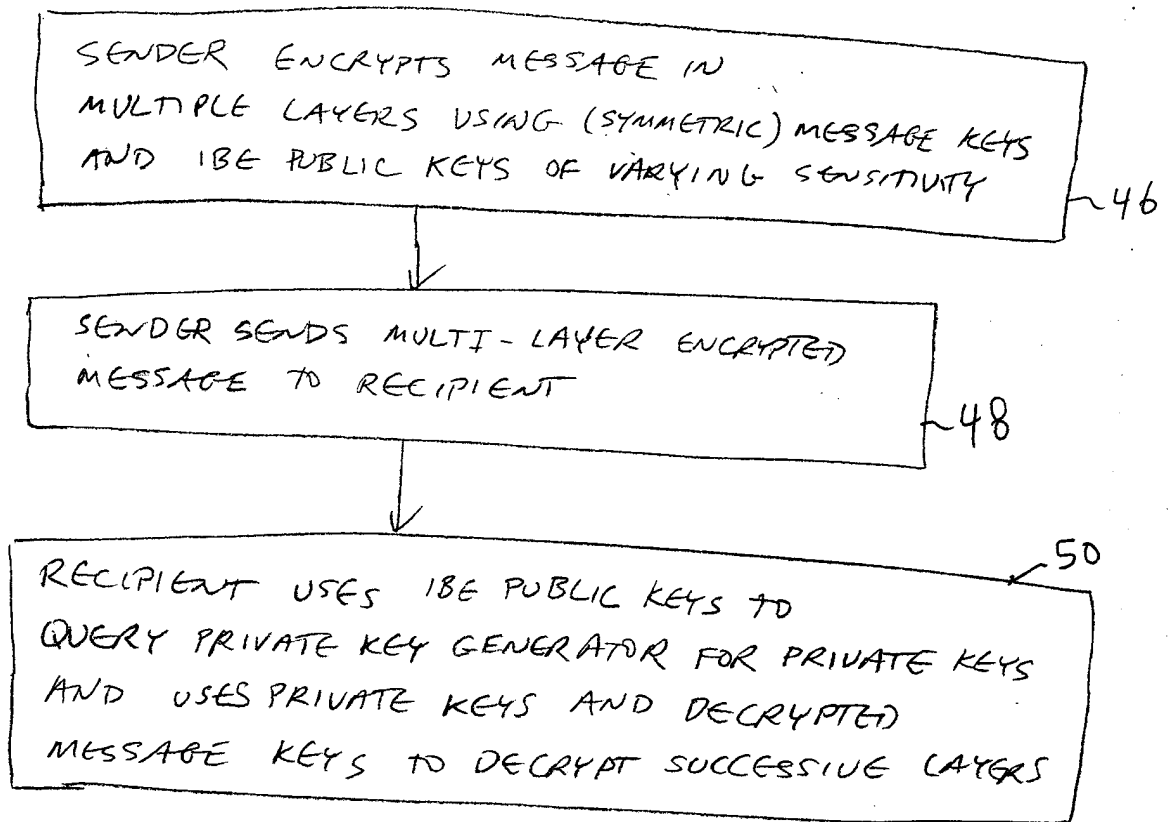


FIG. 4

DATA STRUCTURE

```
< MOVIE >  
  < SUBSCRIBER_NO NO = 242 8667 / >  
  < RATING NC-17 / >  
  < TITLE "MOVIE NAME" / >  
  < REGION R = "US" / >  
  .  
  .  
  .  
< / MOVIE >
```

FIG. 5

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```
< IBE_POLICY_ATTRIBUTE_RECORD >  
  < TYPE T = "MOVIE" / >  
  < FIELD F = "SUBSCRIBER_NO"; POLICY = "VIEWER SUBSCRIBER NO. MUST MATCH";  
    SENSITIVITY = "NONE" / >  
  < FIELD F = "RATING"; POLICY = "MUST BE OLD ENOUGH TO VIEW RATING";  
    SENSITIVITY = "HIGH" / >  
< / IBE_POLICY_ATTRIBUTE_RECORD >
```

FIG. 6

OBTAIN DATA TO BE ENCRYPTED
AND ASSOCIATED ATTRIBUTES WHICH MAY
BE USED IN FORMING IBE PUBLIC KEY FOR
ENCRYPTION (E.G., OBTAIN AN XML
DATA STRUCTURE CONTAINING DATA SUCH
AS A MOVIE AND ASSOCIATED
ATTRIBUTES SUCH AS RATING AND
SUBSCRIBER NUMBER)

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OBTAIN ATTRIBUTE CHARACTERISTICS
TO BE USED IN DETERMINING
HOW EACH ATTRIBUTE SHOULD BE USED
DURING THE PROCESS OF ENCRYPTING
THE DATA (E.G., OBTAIN AN XML
RECORD THAT CONTAINS ATTRIBUTE
SENSITIVITY LEVEL INFORMATION SPECIFYING
HOW SENSITIVE EACH ATTRIBUTE IS)

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ENCRYPT DATA USING
IBE PUBLIC KEY THAT IS BASED ON ATTRIBUTES
AND THEIR CHARACTERISTICS (E.G., USE
MORE SENSITIVE ATTRIBUTES IN
INNER IBE ENCRYPTION LAYERS AND
USE LESS SENSITIVE ATTRIBUTES IN OUTER
IBE ENCRYPTION LAYERS)

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FIG. 7